Reaction is in a solvent (e.g. benzene, toluene, xylene, CHF, dioxane, ethylene glycol diethyl ether, acetone, MeCOEt, CH<sub>2</sub>Cl<sub>2</sub>, CHCl<sub>3</sub>, DMF, DMSO, MeCN, pyridine, MeOH, EtOH, t-BuOH) at 50-200°C for 5 mins to 24 hrs. pref. at 60-150°C for 15 mins. - 10 hrs. if required in presence of a base (e.g. Na<sub>2</sub>CO<sub>3</sub>, K<sub>2</sub>CO<sub>3</sub>, Et<sub>3</sub>N, N,Ndiethylaniline, NaH).

EXAMPLE A mixt. of 20.0g. 1-chloro-4-(3-pyridyl)phthalazine and 23.0 g. aniline was stirred under heating at 100°C for 30 mins. The solidified reaction mixt. was dissolved in CH<sub>2</sub>Cl<sub>2</sub>, washed with aq. Na<sub>2</sub>CO<sub>3</sub> and water, dried on Na<sub>2</sub>SO<sub>4</sub>, and evapd. The residue was recrystd. from EtOH to give 19.3 g 1-anilino-4-(3-pyridyl)phthalazine, m.pt. 204-206°C.(7ppW52DAHDwgNo0/0).

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MORISHITA PHARM KK

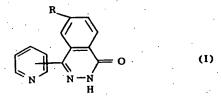
MORP 20.09.89 \*J0 3106-874-A B(6-D6) N(4-D) ;

B0174

20.09.89-JP-246075 (07.05.91) C07d-401/04 4-Pyridyl-1(2H)-phthalazinone(s) - useful as intermediates for

platelet agglutination C91-075723

4-Pyridyl-1(2H)-phthalazinones of formula (I) are new:



R = H or MeO.

(I) are intermediates for platelet agglutinationinhibiting cpds.

PREPARATION

(I) may be prepd. from 2-(2-bromophenyl)-4,4-dimethyl-2-oxazoline (II) as in the following example.

To a mixt. of 5.6 g. Mg ribbon and a catalytic amt. of iodine was treated dropwise with a soln. of 50 g. (II) in 100 ml THF with stirring to give a Grignard reagent. This was dropwise added to a soln. of 21 g. nicotinaldehyde in 150 ml THF under ice cooling at 0-5°C and the mixt. was stirred at room temp. for 4 hrs. and worked up to give 2-(4,4-dimethyl-2-oxazolin-2-yl)phenyl-3-pyridinemethanol,

b.pt. 190-195°C/0.2 mmHg.

A soln. of the product (40 g.) in 420 ml DMSO and 280 ml Ac2O was stirred at room temp. for 21 hrs. then poured into 500 ml ice water and extracted with benzene. The extract was washed with water, dried and evapd. and the residue distilled to give 30 g. 2-(4,4-dimethyl-2-oxazolin-2-yl)phenyl 3-pyridyl ketone, b.pt. 190-195°C/0.2mmHg

A mixt. of the product (30 g.) and 360 ml 3N-HCl was refluxed under heating for 3 hrs. and then evapd. to dry-The residue was dissolved in 300 ml EtOH, treated 1J03106874-A+

with hydrazine hydrate, and the mixt. refluxed under heating for 4 hrs. The pptd. crystals were collected by filtration, washed with water, and dried to give 19.0 g. 4-(3pwridyl)-1(2H)-phthalazinone, m.pt. 271-272°C. W52DAHDwgNo0/0)

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